Instruction

Please retai

Many of the

Step #
1
2
3
4

5

Use the follo

C

s for completing spreadsheet

n the structure of the spreadsheet, as it will be processed to combine with other requests.

fields will be left blank or be the same from year-to-year!

Details
Enter date that spreadsheet is completed
Enter experiment name
Blue fields will be supplied by SCD. When ready to fill out spreadsheet, request this information.
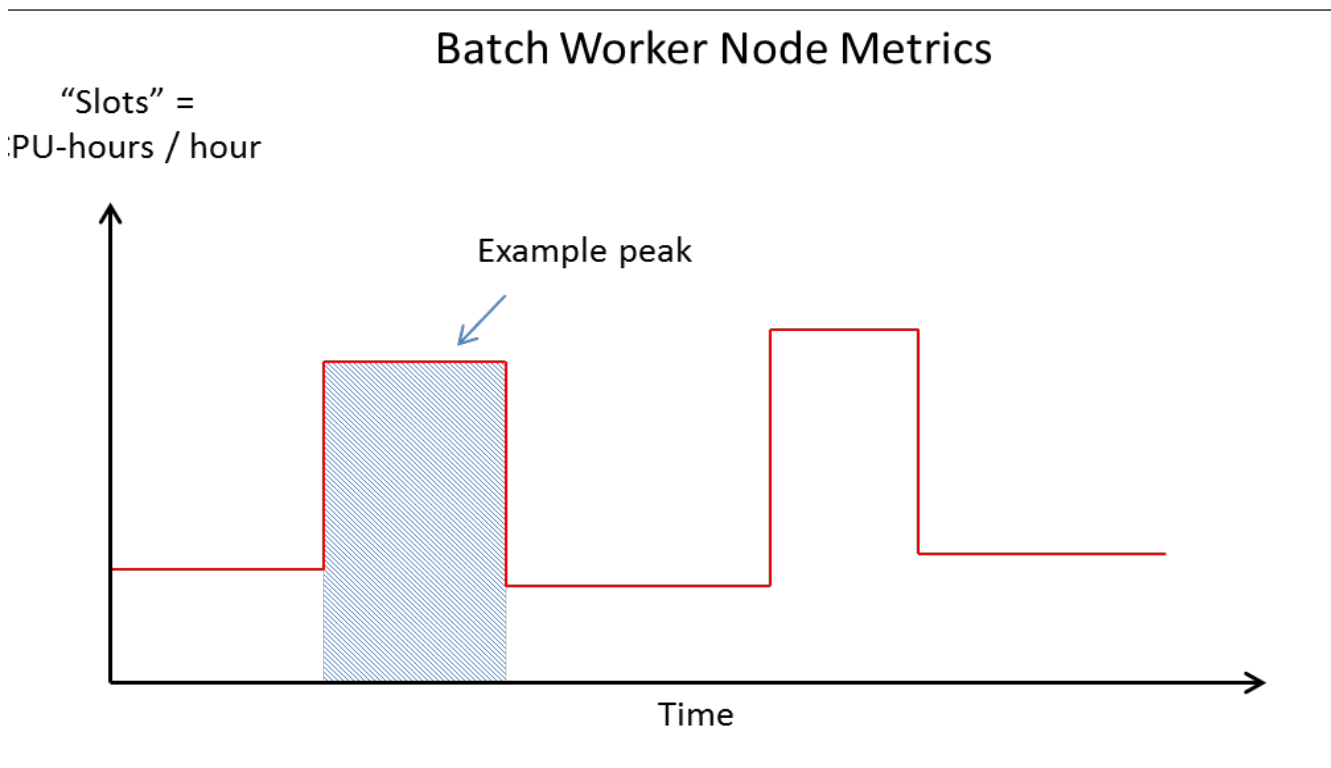Information is requested for 4 time periods:
a) Immediate needs for resources not currently supplied
b) Needs for remainder of FY15 (and into early FY16), supposedly met by FY14 purchases and FY15 effort alloca
c) Projected needs through end of FY16 (and into early FY17) that require purchases in FY15 and effort allocatio
d) Projected needs through end of FY17 (and into early FY18) that require purchases in FY16 and effort allocatio
The upper part of the spreadsheet notes physical resources (processing, servers, storage, network, electronics).
Note the threshold for reporting. Leave blank if "none", note "Yes" if minimal request.
These fields must be numbers. Enter comments in last column.

swing figure as a guideline for specifying integral / peak CPU requirements

02/11//2015	Experiment:	Minos+

Service	Service Offering	Offering details
SCIENTIFIC COMPUTING SYSTEMS		
	Batch Worker Nodes	FermiGrid yearly integral
	(assume all CPUs equivalent)	FermiGrid peak integral
		FermiGrid peak duration
		FermiGrid peak count
		OSG opportunistic yearly integral
		OSG opportunistic peak integral
		OSG opportunistic peak duration
		OSG opportunistic peak count
		External dedicated yearly integral
		Large Memory or Multi-CPU
	Server & Storage Support	Static Interactive Service
		Other Static Services
		Dynamic Services, average
		Dynamic Services, peak
		cvmfs Service
		Build & Release Service
		Database Service
		Other Disk Service (specify)
SCIENTIFIC DATA STORAGE & ACCESS		
	dCache	Shared RW
		Shared RW lifetime
		Shared Scratch
		Shared Scratch lifetime
		Dedicated Write
	enstore	New/additional capacity
NETWORKED STORAGE		
	NAS/BlueArc	*-app
		*-data
		*-prod
		*-ana
NETWORK SERVICES		
	Physical Infrastructure	DAQ LAN bandwidth
		LAN bandwidth
	WAN Infrastructure	DAQ WAN bandwidth
		WAN bandwidth
		Dedicated WAN circuits

Notes:

1 If a wide range, enter single number of best estimate and make note in Commen
2 If peaks expected to be reached > 10% of time, make note in Comments column
3 Remote sites other than OSG, note in Comments column
4 Assume a static server (eg GPCF) is 4 cores, 12 GB memory
5 Assume a dynamic server (eg FermiCloud) is 1 core, 2 GB memory
6 Build and Release facility is in progress. State Yes if planning to use central facil
7 This row is for the database servers; the database services are below.
8 This row is for dedicated servers with attached disk. Specify the number of such

Definition of row or column	See notes below	Threshold for reporting (if below threshold, then enter "Yes" if small request)	Prior usage Past (eg previous 3 months, to be supplied)
# CPU-hours	1	100,000	14 Million (2014)
# CPU-hours	2	any	
# of hours	2	any	
# of peak periods	2	any	
# CPU-hours	1	100,000	0
# CPU-hours	2	any	0
# of hours	2	any	0
# of peak periods	2	any	0
# CPU-hours	3	100,000	0
Describe needs in Comments		any	
# of Static Services (eg VMs)	4	any	6
# of Static Services	4	any	4
# of Dynamic Services	5	2	
# of Dynamic Services	2	10	
Repository (Yes or No)		Yes	
Use facility (Yes or No)	6	Yes	no
Specify type(s), numbers	7	any	mysql 1
Servers with attached disk	8	any	/scratch/minos
Cache disk storage (TB)	1	20	240
Cache disk desired lifetime (days)	1	10	200
Cache disk storage (TB)	1	20	0
Cache disk desired lifetime (days)	1	10	
Cache disk storage (TB)	1	any	12
Tape media (TB)	1	25	-350
Dedicated NAS (TB)	1	any	7
Dedicated NAS (TB)	1	any	240
Dedicated NAS (TB)	1	any	
Dedicated NAS (TB)	1	any	
Dedicated for DAQ		any 10GE	1G ND and FD
Specific to experiment		any 10GE	n/a
Dedicated for DAQ		any	n/a
Specific to experiment		average > 2 Gb/s	100 Mbit
Dedicated for experiment		any	

Supplied info

ts column

ity. Add Comment on frequency.

. Add Comment on capacity.

Current usage Current/Recent (allocation and/or utilization of resources, to be supplied)	Projected needs: "Immediate" Needs at this moment. If different from current level then requires immediate reallocation of resources.	"This year" thru end FY15 Expectation of needs thru remainder of FY15. If different from current level then requires gradual reallocation of resources.
18 Million 4 Million 1500 1	18 million 4 Million 1500 2 tbd	18 Million 4 Million 1500 2 tbd
	TACC,Caltech – tbd 6 4	TACC, Caltech - tbd 6 4
6 4		
yes no mysql 1 /scratch/minos	yes no mysql 1 /scratch/minos	yes no mysql 1 /scratch/minos
450 90 10 90 14 90	450 200 50 90 20 90	450 200 100 90 20 90
6 240	5 240	3 240
1G ND and FD n/a n/a 100 Mbit	1G ND and FD n/a n/a 100 Mbit	1G ND and FD n/a n/a 100 Mbit

Requested info

"Next year" thru end FY16 Expectation of needs thru end of FY16. If different from FY15 level then requires purchases or reallocation in FY15.	"Out year" thru end FY17 Expectation of needs thru end of FY17. If different from FY16 level then requires purchases or reallocation in FY16.	Comments: Use footnotes if necessary.	
22 Million 5 Million	25 Million 4 Million		
1500	1500		
2	1		
tbd	tbd		
TACC, Caltech - tbd	TACC, Caltech - tbd		
6	6		
4	4		
yes no mysql 1 /scratch/minos	yes no mysql 1 /scratch/minos		
700	800	TB	
200	200	days	
200	200	TB	
90	90	days	
20	20	TB	
90	50	TB	
3	3	TB	
240	240	TB	
1G ND and FD n/a n/a 100 Mbit	1G ND and FD n/a n/a 100 Mbit		